

=> FILE CAPLUS		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'CAPLUS' ENTERED AT 13:41:26 ON 19 SEP 2002
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FILE COVERS 1907 - 19 Sep 2002 VOL 137 ISS 12
 FILE LAST UPDATED: 18 Sep 2002 (20020918/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

CAS roles have been modified effective December 16, 2001. Please check your SDI profiles to see if they need to be revised. For information on CAS roles, enter HELP ROLES at an arrow prompt or use the CAS Roles thesaurus (/RL field) in this file.

```
=> s water absorbing composite
    1950360 WATER
    212957 WATERS
    2000384 WATER
        (WATER OR WATERS)
    64212 ABSORBING
        1 ABSORBINGS
    64212 ABSORBING
        (ABSORBING OR ABSORBINGS)
    228518 COMPOSITE
    138136 COMPOSITES
    260574 COMPOSITE
        (COMPOSITE OR COMPOSITES)
L1      39 WATER ABSORBING COMPOSITE
        (WATER (W) ABSORBING (W) COMPOSITE)
```

```
=> s water (l)absorbing (l) composite
    1950360 WATER
    212957 WATERS
    2000384 WATER
        (WATER OR WATERS)
    64212 ABSORBING
        1 ABSORBINGS
    64212 ABSORBING
        (ABSORBING OR ABSORBINGS)
    228518 COMPOSITE
    138136 COMPOSITES
    260574 COMPOSITE
        (COMPOSITE OR COMPOSITES)
L2      272 WATER (L)ABSORBING (L) COMPOSITE
```

```
=> s water absorbing polymer particles
```

1950360 WATER
 212957 WATERS
 2000384 WATER
 (WATER OR WATERS)
 64212 ABSORBING
 1 ABSORBINGS
 64212 ABSORBING
 (ABSORBING OR ABSORBINGS)
 845455 POLYMER
 705428 POLYMERS
 1153842 POLYMER
 (POLYMER OR POLYMERS)
 615309 PARTICLES
 1 PARTICLESES
 615309 PARTICLES
 (PARTICLES OR PARTICLESES)
 L3 42 WATER ABSORBING POLYMER PARTICLES
 (WATER (W) ABSORBING (W) POLYMER (W) PARTICLES)

=> s water (l)absorbing (l)polymer (l)particles

1950360 WATER
 212957 WATERS
 2000384 WATER
 (WATER OR WATERS)
 64212 ABSORBING
 1 ABSORBINGS
 64212 ABSORBING
 (ABSORBING OR ABSORBINGS)
 845455 POLYMER
 705428 POLYMERS
 1153842 POLYMER
 (POLYMER OR POLYMERS)
 615309 PARTICLES
 1 PARTICLESES
 615309 PARTICLES
 (PARTICLES OR PARTICLESES)
 L4 299 WATER (L) ABSORBING (L) POLYMER (L) PARTICLES

=> s fibrous (l)substrate

45335 FIBROUS
 641672 SUBSTRATE
 304009 SUBSTRATES
 809435 SUBSTRATE
 (SUBSTRATE OR SUBSTRATES)

L5 1758 FIBROUS (L) SUBSTRATE

=> s fibers or fibres

447093 FIBERS
 1399 FIBRES
 L6 447441 FIBERS OR FIBRES

=> s polyester or polyethylene or polypropylene or polystyrene or polyamide or polyvinyl alcohol or polyvinyl chloride or polyurea or polymethane or polyfluoroethylene or polyacrylonitrile or polyvinylidene chloride or polyvinylidene cepanide

215529 POLYESTER
 164082 POLYESTERS
 264035 POLYESTER
 (POLYESTER OR POLYESTERS)
 277905 POLYETHYLENE
 8950 POLYETHYLENES
 280487 POLYETHYLENE
 (POLYETHYLENE OR POLYETHYLENES)
 129631 POLYPROPYLENE

1740 POLYPROPYLENES
 129820 POLYPROPYLENE
 (POLYPROPYLENE OR POLYPROPYLENES)
 117638 POLYSTYRENE
 3818 POLYSTYRENES
 118400 POLYSTYRENE
 (POLYSTYRENE OR POLYSTYRENES)
 107844 POLYAMIDE
 82208 POLYAMIDES
 136570 POLYAMIDE
 (POLYAMIDE OR POLYAMIDES)
 68283 POLYVINYL
 160 POLYVINYL
 68397 POLYVINYL
 (POLYVINYL OR POLYVINYL)
 164477 ALCOHOL
 124115 ALCOHOLS
 269423 ALCOHOL
 (ALCOHOL OR ALCOHOLS)
 502277 ALC
 162315 ALCS
 586578 ALC
 (ALC OR ALCS)
 680418 ALCOHOL
 (ALCOHOL OR ALC)
 31672 POLYVINYL ALCOHOL
 (POLYVINYL (W) ALCOHOL)
 68283 POLYVINYL
 160 POLYVINYL
 68397 POLYVINYL
 (POLYVINYL OR POLYVINYL)
 868582 CHLORIDE
 133256 CHLORIDES
 934020 CHLORIDE
 (CHLORIDE OR CHLORIDES)
 12202 POLYVINYL CHLORIDE
 (POLYVINYL (W) CHLORIDE)
 7577 POLYUREA
 6462 POLYUREAS
 9046 POLYUREA
 (POLYUREA OR POLYUREAS)
 175 POLYMETHANE
 26 POLYMETHANES
 200 POLYMETHANE
 (POLYMETHANE OR POLYMETHANES)
 0 POLYFLUOROETHYLENE
 20120 POLYACRYLONITRILE
 389 POLYACRYLONITRILES
 20280 POLYACRYLONITRILE
 (POLYACRYLONITRILE OR POLYACRYLONITRILES)
 8863 POLYVINYLIDENE
 8 POLYVINYLIDENES
 8869 POLYVINYLIDENE
 (POLYVINYLIDENE OR POLYVINYLIDENES)
 868582 CHLORIDE
 133256 CHLORIDES
 934020 CHLORIDE
 (CHLORIDE OR CHLORIDES)
 2183 POLYVINYLIDENE CHLORIDE
 (POLYVINYLIDENE (W) CHLORIDE)
 8863 POLYVINYLIDENE
 8 POLYVINYLIDENES
 8869 POLYVINYLIDENE
 (POLYVINYLIDENE OR POLYVINYLIDENES)

0 CEPANIDE
0 POLYVINYLIDENE CEPANIDE
(POLYVINYLIDENE (W) CEPANIDE)
L7 807169 POLYESTER OR POLYETHYLENE OR POLYPROPYLENE OR POLYSTYRENE OR
POLYAMIDE OR POLYVINYL ALCOHOL OR POLYVINYL CHLORIDE OR POLYUREA
OR POLYMETHANE OR POLYFLUOROETHYLENE OR POLYACRYLONITRILE OR
POLYVINYLIDENE CHLORIDE OR POLYVINYLIDENE CEPANIDE

=> d his

(FILE 'HOME' ENTERED AT 13:40:51 ON 19 SEP 2002)

FILE 'CAPLUS' ENTERED AT 13:41:26 ON 19 SEP 2002

L1 39 S WATER ABSORBING COMPOSITE
L2 272 S WATER (L) ABSORBING (L) COMPOSITE
L3 42 S WATER ABSORBING POLYMER PARTICLES
L4 299 S WATER (L) ABSORBING (L) POLYMER (L) PARTICLES
L5 1758 S FIBROUS (L) SUBSTRATE
L6 447441 S FIBERS OR FIBRES
L7 807169 S POLYESTER OR POLYETHYLENE OR POLYPROPYLENE OR POLYSTYRENE OR

=> s wood pulp or rayon or cotton or cellulose

122719 WOOD
7479 WOODS
126446 WOOD
(WOOD OR WOODS)
107599 PULP
16830 PULPS
110292 PULP
(PULP OR PULPS)
7532 WOOD PULP
(WOOD (W) PULP)
31284 RAYON
1137 RAYONS
31786 RAYON
(RAYON OR RAYONS)
99582 COTTON
1124 COTTONS
99695 COTTON
(COTTON OR COTTONS)
294155 CELLULOSE
3854 CELLULOSES
294734 CELLULOSE
(CELLULOSE OR CELLULOSES)
L8 396192 WOOD PULP OR RAYON OR COTTON OR CELLULOSE

=> d his

(FILE 'HOME' ENTERED AT 13:40:51 ON 19 SEP 2002)

FILE 'CAPLUS' ENTERED AT 13:41:26 ON 19 SEP 2002

L1 39 S WATER ABSORBING COMPOSITE
L2 272 S WATER (L) ABSORBING (L) COMPOSITE
L3 42 S WATER ABSORBING POLYMER PARTICLES
L4 299 S WATER (L) ABSORBING (L) POLYMER (L) PARTICLES
L5 1758 S FIBROUS (L) SUBSTRATE
L6 447441 S FIBERS OR FIBRES
L7 807169 S POLYESTER OR POLYETHYLENE OR POLYPROPYLENE OR POLYSTYRENE OR
L8 396192 S WOOD PULP OR RAYON OR COTTON OR CELLULOSE

=> s 12 and 14 and 16 and 17

L9 4 L2 AND L4 AND L6 AND L7

=> s 12 and 14 and 16 and 17 and 18

L10 2 L2 AND L4 AND L6 AND L7 AND L8

=> d 19 1-4 bib,abs

L9 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2002 ACS

AN 2001:569497 CAPLUS

DN 135:157720

TI Biodegradable highly water-absorbable composites containing cellulose-coated crosslinked poly(amino acids), their manufacture, and their use for sanitary products

IN Irizato, Yoshihiro; Higuchi, Chojiro; Ishitoku, Takeshi; Suzuki, Osamu

PA Mitsui Chemicals Inc., Japan; Nippon Kyushutai Gijutsu Kenkyusho K. K.

SO Jpn. Kokai Tokkyo Koho, 31 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2001212899	A2	20010807	JP 2000-24305	20000201
AB	Title composites , which are degraded in compost or soil, comprise (A) a water-absorbing layer contg. crosslinked poly(amino acid) particles (partially) coated with microfibrillated cellulose, and (B) a biodegradable support. The composites are useful for disposable diapers, sanitary napkins, etc. Thus, a dispersion contg. S-MFC (microfibrillated cellulose), lysine-crosslinked poly(aspartic acid), H ₂ O, and MeOH was cast on a running substrate composed of rayon and poly(lactic acid) spun-bond web, roll pressed, and dried to give a composite , which retained 40.2 g water /(1 g of the crosslinked polymer) and decompn. rate 95% in compost.				

L9 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2002 ACS

AN 1997:618505 CAPLUS

DN 127:294390

TI **Water-absorbing** polymer **composites** and their manufacture

IN Tsuchiya, Hiroyoshi; Ito, Kiichi; Yamashita, Masayuki

PA Mitsubishi Chemical Industries Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 11 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 09239912	A2	19970916	JP 1996-84753	19960313
AB	Title composites , useful as sanitary or agricultural materials, comprise water-absorbing polymer particle aggregates fixed on or in fibers and are manufd. by setting water-sol. polymer particles , which are impregnated with water-sol. ethylenically unsatd. monomers, on or in fibers and polymg. the monomers. Thus, a part of an aq. monomer soln. contg. partially neutralized acrylic acid, N,N-methylenebisacrylamide, and K ₂ S ₂ O ₈ was added to cyclohexane-sorbitan monostearate mixt., heated at 55-77.degree., mixed with another part of the monomer soln., coated on polyester nonwoven fabric, and heated at 100.degree. for 60 min to give a composite contg. 200 g polymer /m ² . The composite showed physiol. saline- absorbing capacity 35 g/g, the saline absorption rate 25 g/g/5 min, and crumple resistance.				

L9 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2002 ACS

AN 1997:302906 CAPLUS

DN 126:278275
 TI **Water-absorbing composite** material and its
 manufacture
 IN Tsucha, Hiroyoshi; Yamashita, Masayuki; Ito, Kiichi
 PA Mitsubishi Chem Corp, Japan
 SO Jpn. Kokai Tokkyo Koho, 11 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 09067403	A2	19970311	JP 1996-136386	19960530
PRAI	JP 1995-151509		19950619		

AB The title **composite** comprises a fibrous base material and **water-absorbing polymer particles** supported by the fibrous material and have properties (1) free vol. 50-99.5%, (2) primary particle size 50-1000 .mu.m, (3) the amt. of **polymer particles** on the support 10-500 g/m2, and (4) supporting ratio (A) >60% after a 60 mm .times. 300 m sheet is satd. with physiol. brine and pressed 5 times with a iron roller of 105 mm diam., breadth 60 mm, and wt. 4 kg on a stone table, where A = [(W0-w)/W0] .times. 100 (W0 is the wt. of **particles** before **absorbing** brine and w is the dry wt. of **polymer particles** come off the support after **absorbing** brine) . Nonwoven **polypropylene/polyethylene** was used as base material and N,N'-methylenebisacrylamide-crosslinked acrylic acid **polymer** prepd. by redox polymn. was used as **water-absorbing particles**. In making the **composite**, the monomer soln. is dropped on the base material and the redox polymn. is completed on the support.

L9 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2002 ACS
 AN 1997:265379 CAPLUS
 DN 126:252156
 TI Water-shielding sheets for landfills
 IN Hayashi, Masaru; Nakao, Akio; Matsumoto, Shuichi; Kamitoku, Mamoru
 PA Toray Industries, Japan; Jiotetsukusu Kk; Izumi Kk
 SO Jpn. Kokai Tokkyo Koho, 7 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 09052323	A2	19970225	JP 1995-206178	19950811
	JP 3177818	B2	20010618		

AB Title sheets are prepd. by spreading high-**water-absorbing** resins on fabric sheet bases to a thickness of 10-3,000 g/m2, covering with fabric sheets, needle-punching the **composites**, and laminating the **composites** with resin sheets. A needle-punched **composite** was prepd. from acrylic acid **polymer particles** and 2 **polyester** nonwoven cloths and laminated with a **polyethylene** sheet to form a laminate with good **water**-shielding ability and swelling resistance.

=> d his

(FILE 'HOME' ENTERED AT 13:40:51 ON 19 SEP 2002)

FILE 'CAPLUS' ENTERED AT 13:41:26 ON 19 SEP 2002

L1 39 S WATER ABSORBING COMPOSITE

L2 272 S WATER (L)ABSORBING (L) COMPOSITE
 L3 42 S WATER ABSORBING POLYMER PARTICLES
 L4 299 S WATER (L)ABSORBING (L)POLYMER (L) PARTICLES
 L5 1758 S FIBROUS (L)SUBSTRATE
 L6 447441 S FIBERS OR FIBRES
 L7 807169 S POLYESTER OR POLYETHYLENE OR POLYPROPYLENE OR POLYSTYRENE OR
 L8 396192 S WOOD PULP OR RAYON OR COTTON OR CELLULOSE
 L9 4 S L2 AND L4 AND L6 AND L7
 L10 2 S L2 AND L4 AND L6 AND L7 AND L8

=> d l10 1-2 bib,abs

L10 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2002 ACS
 AN 2001:569497 CAPLUS
 DN 135:157720
 TI Biodegradable highly water-absorbable composites containing
cellulose-coated crosslinked poly(amino acids), their manufacture,
 and their use for sanitary products
 IN Irizato, Yoshihiro; Higuchi, Chojiro; Ishitoku, Takeshi; Suzuki, Osamu
 PA Mitsui Chemicals Inc., Japan; Nippon Kyushutai Gijutsu Kenkyusho K. K.
 SO Jpn. Kokai Tokkyo Koho, 31 pp.
 CODEN: JKXXAF

DT Patent
 LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2001212899	A2	20010807	JP 2000-24305	20000201
AB	Title composites , which are degraded in compost or soil, comprise (A) a water-absorbing layer contg. crosslinked poly(amino acid) particles (partially) coated with microfibrillated cellulose , and (B) a biodegradable support. The composites are useful for disposable diapers, sanitary napkins, etc. Thus, a dispersion contg. S-MFC (microfibrillated cellulose), lysine-crosslinked poly(aspartic acid), H2O, and MeOH was cast on a running substrate composed of rayon and poly(lactic acid) spun-bond web, roll pressed, and dried to give a composite , which retained 40.2 g water /(1 g of the crosslinked polymer) and decompn. rate 95% in compost.				

L10 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2002 ACS
 AN 1997:302906 CAPLUS
 DN 126:278275
 TI **Water-absorbing composite** material and its
 manufacture
 IN Tsucha, Hiroyoshi; Yamashita, Masayuki; Ito, Kiichi
 PA Mitsubishi Chem Corp, Japan
 SO Jpn. Kokai Tokkyo Koho, 11 pp.
 CODEN: JKXXAF

DT Patent
 LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 09067403	A2	19970311	JP 1996-136386	19960530
PRAI	JP 1995-151509		19950619		
AB	The title composite comprises a fibrous base material and water-absorbing polymer particles supported by the fibrous material and have properties (1) free vol. 50-99.5%, (2) primary particle size 50-1000 .mu.m, (3) the amt. of polymer particles on the support 10-500 g/m2, and (4) supporting ratio (A) >60% after a 60 mm .times. 300 m sheet is satd. with physiol. brine and pressed 5 times with a iron roller of 105 mm diam., breadth 60 mm, and wt. 4 kg on a stone table, where A = [(W0-w)/W0]				

.times. 100 (W0 is the wt. of **particles** before **absorbing** brine and w is the dry wt. of **polymer particles** come off the support after **absorbing** brine) . Nonwoven **polypropylene/polyethylene** was used as base material and N,N'-methylenebisacrylamide-crosslinked acrylic acid **polymer** prep'd. by redox polymn. was used as **water-absorbing particles**. In making the **composite**, the monomer soln. is dropped on the base material and the redox polymn. is completed on the support.

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=> log y
COST IN U.S. DOLLARS          SINCE FILE      TOTAL
                               ENTRY      SESSION
FULL ESTIMATED COST          84.77      84.98

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)  SINCE FILE      TOTAL
                                               ENTRY      SESSION
CA SUBSCRIBER PRICE          -3.72      -3.72
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STN INTERNATIONAL LOGOFF AT 13:50:31 ON 19 SEP 2002

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=> file caplus
COST IN U.S. DOLLARS          SINCE FILE      TOTAL
                               ENTRY      SESSION
FULL ESTIMATED COST          0.21      0.21
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FILE 'CAPLUS' ENTERED AT 16:40:31 ON 05 MAR 2003
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FILE COVERS 1907 - 5 Mar 2003 VOL 138 ISS 10
 FILE LAST UPDATED: 4 Mar 2003 (20030304/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

```
=> s composite
    236538 COMPOSITE
    143076 COMPOSITES
L1   269727 COMPOSITE
      (COMPOSITE OR COMPOSITES)
```

```
=> s water(l)absorbing
    1997283 WATER
    219670 WATERS
    2047523 WATER
      (WATER OR WATERS)
    66082 ABSORBING
    1 ABSORBINGS
```


66082 ABSORBING
(ABSORBING OR ABSORBINGS)
L2 11495 WATER(L)ABSORBING

=> s polymer(l)particles
879463 POLYMER
740337 POLYMERS
1199495 POLYMER
(POLYMER OR POLYMERS)
636365 PARTICLES
1 PARTICLESES
636365 PARTICLES
(PARTICLES OR PARTICLESES)
L3 42820 POLYMER(L) PARTICLES

=> s fibrous(l)substrate
46282 FIBROUS
664719 SUBSTRATE
313702 SUBSTRATES
837245 SUBSTRATE
(SUBSTRATE OR SUBSTRATES)
L4 1826 FIBROUS(L) SUBSTRATE

=> d his

(FILE 'HOME' ENTERED AT 16:39:51 ON 05 MAR 2003)

FILE 'CAPLUS' ENTERED AT 16:40:31 ON 05 MAR 2003

L1 269727 S COMPOSITE
L2 11495 S WATER(L)ABSORBING
L3 42820 S POLYMER(L) PARTICLES
L4 1826 S FIBROUS(L) SUBSTRATE

=> s l1 and l2 and l3 and l4
L5 3 L1 AND L2 AND L3 AND L4

=> d l5 1-3 bib,abs

L5 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2003 ACS
AN 2000:335323 CAPLUS
DN 132:323549

TI **Water-absorbing composites** and their
manufacture

IN Tsuchiya, Hiroyoshi; Katoh, Kouji; Itoh, Kiichi

PA Mitsubishi Chemical Corporation, Japan

SO PCT Int. Appl., 51 pp.

CODEN: PIXXD2

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----		-----	-----	-----
PI	WO 2000027624	A1	20000518	WO 1999-JP6176	19991105
	W:	AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
EP	1142696	A1	20011010	EP 1999-954406	19991105
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,			

IE, SI, LT, LV, FI, RO
 JP 2000198805 A2 20000718 JP 1999-317105 19991108
 JP 2000301644 A2 20001031 JP 2000-32476 20000209
 PRAI JP 1998-330283 A 19981106
 JP 1999-35247 A 19990215
 WO 1999-JP6176 W 19991105
 AB The title **composites** are composed of a **fibrous substrate**, and immobilized **water-absorbing polymer particles** having primary-particle av. particle size of 50-1000 .mu.m, and .gtoreq.30 wt.% of agglomerated primary **particles**, whereas a portion of the agglomerated primary **particles** are not adhered onto the **fibrous substrate**, and the agglomerated primary **particles** have an av. particle size of 100-3000 .mu.m, a deviation angle of 10-25, a 5Hz/20Hz intensity ratio in frequency anal. of 0.6-0.9, and a longest-diam./shortest-diam. ratio of 1.2-15.0.
 RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2003 ACS
 AN 1999:380566 CAPLUS
 DN 131:7164
 TI **Water-absorbing composite** materials and their manufacture
 IN Kato, Koji; Ito, Kiichi; Tsuchiya, Hiroyoshi
 PA Mitsubishi Chemical Industries Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 9 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 11156188	A2	19990615	JP 1997-322846	19971125
PRAI	JP 1997-322846		19971125		

AB The title materials are composed of **water-absorbing polymer particles**(e.g., polyacrylates) fixed on **fibrous substrates**(thickness .gtoreq.1 mm) at .ltoreq.2g/100 cm3.

L5 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2003 ACS
 AN 1998:274608 CAPLUS
 DN 129:6132
 TI **Water-absorbing composites** and their manufacture
 IN Yamashita, Masayuki; Tsuchiya, Hiroyoshi
 PA Mitsubishi Chemical Industries Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 7 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 10113556	A2	19980506	JP 1996-268386	19961009
PRAI	JP 1996-268386		19961009		

AB Aq. solns. of org. unsatd. carboxylic acids(e.g., acrylic acid) or their salts are atomized with blown gases(e.g., air), coated on **fibrous substrates**, and polymd. to give the title products having **water-absorbing polymer particles** (av. particle size 5-150.mu.m).

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	20.97	21.18
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-1.95	-1.95

STN INTERNATIONAL LOGOFF AT 16:43:06 ON 05 MAR 2003